**Star Deflector**

**3" Ceiling Module Size**

Ceiling Module minus 1/4"

**D minus 1/8"**

**Duct Size D**

Nominal

**PSS**

• Supply • Star Pattern

Perforated Ceiling Diffusers

Steel • Flush Face

- **Border Type 3 (Lay-In)**
- **Border Type 1 (Surface Mount)**
- **Border Type 2 (Snap-In)**
- **Border Type 4 (Spline)**
- **Border Type 4SL (Spline Side Lock)**

**Note:** 4SL can be installed after ceiling tiles are in place.

<table>
<thead>
<tr>
<th>Available Sizes for Border Types 1, 2, 3, 4, 4SL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face or Ceiling Module Size</td>
</tr>
<tr>
<td>------------------------------</td>
</tr>
<tr>
<td>6 x 6</td>
</tr>
<tr>
<td>12 x 12</td>
</tr>
<tr>
<td>24 x 24</td>
</tr>
</tbody>
</table>

* Indicates available combination

All dimensions are in inches.
Available Discharge Patterns

- **Side Blow**
- **Corner Blow**
- **Field Adjusted**

Exterior Zone Applications Illustrating Wall Effect

- **Side blow** gives maximum throw.
- **Corner blow** gives maximum spread.
- **Corner blow** with directional adjustment gives maximum wall coverage.
- **Corner blow** with directional adjustment fills corner.
- **Corner blow** with directional adjustment blows away from walls to avoid drafts.

Interior Zone Applications

- Alternating side blow and corner blow setting allow diffuser to be closely spaced without creating down drafts that would otherwise result from two air streams colliding head-on.

Field Adjustments

- Pattern can be changed from side blow to corner blow and vice versa by removing four screws, rotating deflector 45 degrees, and replacing screws.

Back blades can be redirected to produce directional adjustment pattern as shown above.
Accessories (Optional) for Round Neck

- Model AG-100 Radial Sliding Blade Damper [ ]
- Model AG Equalizing Grid [ ]
- Model D-100 Radial Sliding Blade Damper [ ]
- Model EG Equalizing Grid [ ]

Model AG-100 damper is available in duct sizes 6 thru 14 inches only.

Model D-100 damper is available in duct sizes 6 thru 14 inches only.

- Model D-75 Opposed Blade Damper [ ]
- Model EG Equalizing Grid [ ]
- Model AG-85 Butterfly Damper [ ]
- Model EG Equalizing Grid [ ]

Model D-75 damper is available in duct sizes 6 thru 12 inches only.

Model AG-85 damper is available in duct sizes 6 thru 14 inches only.

- Model AG-65 Combination Damper and Equalizing Grid [ ]
- Model EG Equalizing Grid [ ]
- Model AG-75 Opposed Blade Damper [ ]
- Model EG Equalizing Grid [ ]

Model AG-65 damper is available in duct sizes 6 thru 14 inches only.

Model AG-75 damper is available in duct sizes 6 thru 14 inches only.

Dimension “A” in Inches, for Dampers Shown on Preceding Page and Above

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Nominal Round Duct Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
<tr>
<td>AG-100</td>
<td>-</td>
</tr>
<tr>
<td>D-100</td>
<td>-</td>
</tr>
<tr>
<td>D-75</td>
<td>2 3/8</td>
</tr>
<tr>
<td>D-85</td>
<td>2 1/2</td>
</tr>
<tr>
<td>AG-65</td>
<td>3 3/8</td>
</tr>
<tr>
<td>AG-75</td>
<td>4 1/4</td>
</tr>
</tbody>
</table>

Note: Model AG-100 and D-100 dampers have radial blades that slide in a horizontal plane. For that reason, no opening clearance “A” is dimensioned.
Accessories (Optional) for Rectangular Neck Check ☑ if provided.

- Model AG-95 Opposed Blade Damper
- Model AG-35B Opposed Blade Damper
- Model EG Equalizing Grid
- Model EG Equalizing Grid

Accessories (Optional) Check ☑ if provided.

- TRM TITUS Rapid Mount Frame
  For Surface Mounting Border Type 3

- IB Molded Insulation Blanket

  Insulation is R-6 where blanket has the most depth. One-inch clearance on each side of neck is left for insulated duct connection. 24 x 24-inch module size only. Blanket is factory installed.

Standard Finish: #26 White

General Description

- Model PSS perforated star diffuser is designed to provide a high induction air pattern that maximizes throw distance.
- Excellent performance in variable air volume systems.
- PSS deflector is mounted directly under the neck of the diffuser to generate the long-throw star pattern.
- Air direction can be field adjusted with no increase in pressure drop or sound level.
- Model PSS is available with either side blow or corner blow. Side blow maximizes throw distance. Corner blow maximizes wall surface coverage in a perimeter installation.
- Model PSS can be changed to either side blow or corner blow in the field.
- Vertical air pattern can be obtained by turning all deflector blades inward.
- Perforated face is hinged to allow access to the star deflector. The damper (where used) is adjustable after removal of the star deflector.
- Perforated face has 3/16” diameter holes on ¼” staggered centers.
- Inlet collar is approximately 1½” deep to allow easy duct connection.
- Material is heavy gauge steel.

This submittal is meant to demonstrate general dimensions of this product. The drawings are not meant to detail every aspect of the product. Drawings are not to scale. Titus reserves the right to make changes without written notice.

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